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DOCKET NO: B0801.70280US01

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Tzianabos et al.

Serial No:

10/814,620

Confirmation No: Filed:

Not Yet Assigned March 31, 2004

For:

ZWITTERIONIC IMMUNOMODULATORS FOR THE

TREATMENT OF ASTHMA AND ALLERGY

Examiner:

Not Yet Assigned

Art Unit:

Not Yet Assigned

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

The undersigned hereby certifies that this document is being placed in the United States mail with first-class postage attached, addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the 18th day of June, 2004.

Alan W. Steele, M.D., Ph.D., Reg. No. 45,128

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

TRANSMITTAL

Sir:

Transmitted herewith are the following documents:

- [X] Statement Filed Pursuant to the Duty of Disclosure Under 37 CFR §§ 1.56, 1.97 and 1.98
- [X] PTO Form 1449 with cited references
- [X] Return Receipt Postcard

If the enclosed papers are considered incomplete, the Mail Room and/or the Application Branch is respectfully requested to contact the undersigned at (617) 720-3500, Boston, Massachusetts.

A check is not enclosed. If a fee is required, the Commissioner is hereby authorized to charge Deposit Account No. 23/2825. A duplicate of this sheet is enclosed.

Respectfully submitted, Tzianabos et al., Applicant

By:

Alan W. Steele, M.D., Ph.D., Reg. No. 45,128

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600 Atlantic Avenue

Boston, Massachusetts 02210-2211

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Docket No. B0801.70280US01

Date: June 18, 2004

X06/31/04X



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Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

STATEMENT FILED PURSUANT TO THE DUTY OF DISCLOSURE UNDER 37 C.F.R. §§ 1.56, 1.97 AND 1.98

Sir:

Pursuant to the duty of disclosure under 37 C.F.R. §§ 1.56, 1.97 and 1.98, the Applicant requests consideration of this Information Disclosure Statement.

PART I: Compliance with 37 C.F.R. § 1.97

This Information Disclosure Statement has been filed within three months of the filing date of a National Application other than a continued prosecution application under 37 C.F.R. § 1.53(d) and before the mailing date of a first Office Action on the merits in the above-identified case.

No fee or certification is required.

PART II: Information Cited

The Applicant hereby makes of record in the above-identified application the information listed on the attached form PTO-1449 (modified). The order of presentation of the references should not be construed as an indication of the importance of the references.

The Applicant hereby makes the following additional information of record in the above-identified application. The Applicant would like to bring to the Examiner's attention the following co-pending applications (copies enclosed*) that may contain subject matter related to this application:

Serial No.	Filing Date	Docket No.	Inventor(s)
09/540,024	03/31/2000	B0801.70169US00	Tzianabos et al.
10/388,390	03/13/2003	B0801.70279US00	Comstock et al.
10/432,406	12/05/2001	B0801.70199US01	Wang et al.
10/848,779	05/19/2004	B0801.70169US01	Tzianabos et al.

^{*}except for 10/432,406 and 10/388,390, which are published applications listed in the accompanying Form 1449

PART III: Remarks

Documents cited anywhere in the Information Disclosure Statement are enclosed unless otherwise indicated. It is respectfully requested that:

- 1. The Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims;
- 2. The enclosed form PTO-1449 be signed by the Examiner to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application;
- 3. The citations for the information be printed on any patent which issues from this application.

By submitting this Information Disclosure Statement, the Applicant makes no representation that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

By submitting this Information Disclosure Statement, the Applicant makes no representation that the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. § 102.

Notwithstanding any statements by the Applicant, the Examiner is urged to form his own conclusion regarding the relevance of the cited information.

An early and favorable action is hereby requested.

Respectfully submitted, Tzianabos et al., Applicant

By:

Alan W. Steele, M.D., Ph.D., Reg. No. 45,128

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FORM PTO-1449/A and B (Modified) JUN 2 1 20	ARE ICATION NO.: 10/814,620	ATTY. DOCKET NO.: B0801.70280US01
INFORMATION DISCLOSURE	EXING DATE: March 31, 2004	CONFIRMATION NO.: Not Yet Assigned
STATEMENT BY APPLICANTAINEN	APPLICANT: Tzianabos et al.	-
Sheet 1 of 3	GROUP ART UNIT: Not Yet Assigned	EXAMINER: Not Yet Assigned

U.S. PATENT DOCUMENTS

Examiner's	Cite	U.S. Patent Doc	ument	Name of Patentee or Applicant of Cited	Date of Publication or of issue
Initials	No.	Number	Kind Code	Document	of Cited Document MM-DD-YYYY
	Al	5,679,654		Tzianabos et al.	10-21-1997
	A2	5,700,787		Tzianabos et al.	12-23-1997
	A3	2002/0090357	A1	Barrat et al.	07-11-2002
	A4	2003/0219413	A1	Comstock et al.	11-27-2003
	A5	2004/0092433	A1	Wang et al.	05-13-2004

FOREIGN PATENT DOCUMENTS

Examiner's	Cite	For	eign Patent Docun	nent	Name of Patentee or Applicant of Cited	Date of Publication of	Translation
Initials	No.	Office/ Country	Number	Kind Code	Document (not necessary)	Cited Document MM-DD-YYYY	(Y/N)
	B1	WO	00/59515	A2	The Brigham and Women's Hospital, Inc.	10-12-2000	
	B2	WO	02/45708	A2	The Brigham and Women's Hospital, Inc.	06-13-2002	
	B3	WO	03/075953	A2	Eli Lilly and Company	09-18-2003	

OTHER ART — NON PATENT LITERATURE DOCUMENTS of the author (in CAPITAL LETTERS) title of the article (when approx

Examiner's	Cite	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item	Translation	
Initials	No	(book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	(Y/N)	
	C1	AKBARI O et al., Antigen-specific regulatory T cells develop via the ICOS-ICOS-ligand pathway		
	0.	and inhibit allergen-induced airway hyperreactivity. Nat Med. 2002 Sep;8(9):1024-32. Epub 2002 Jul	1	
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	C2	BARRAT FJ et al., In vitro generation of interleukin 10-producing regulatory CD4(+) T cells is		
		induced by immunosuppressive drugs and inhibited by T helper type 1 (Th1)- and Th2-inducing		
		cytokines. J Exp Med. 2002 Mar 4;195(5):603-16.		
	C3	BAUMANN H et al., Structural elucidation of two capsular polysaccharides from one strain of		
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	C5	DIFABIO JL et al., Structure of the capsular polysaccharide antigen of type IV group B		
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	C6	FINBERG RW et al., Decay-accelerating factor expression on either effector or target cells inhibits		
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	C8	GENBANK Accession Number AJ277832; Hutloff; 19-Jan-2001.		
	C9	GENBANK Accession Number CAC06612; Hutloff; 19-Jan-2001.		
	C10	GENBANK Accession Number NM_012092; 20-Dec-2003.		

FORM PTO-1449/A and B (Modified)	APPLICATION NO.: 10/814,620	ATTY. DOCKET NO.: B0801.70280US01	
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Sheet 2 of 2	GROUP ART UNIT: Not Yet Assigned	EXAMINER: Not Yet Assigned	

•	C11	GENBANK Accession Number NP_036224; 20-Dec-2003.	
	C12	GLAZEBROOK J et al., A novel exopolysaccharide can function in place of the calcofluor-binding	
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_•	C13	GROUX H et al., A CD4+ T-cell subset inhibits antigen-specific T-cell responses and prevents	
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	C14	GROUX H, Type 1 T-regulatory cells: their role in the control of immune responses. Transplantation.	
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	C23	KENNE L et al., Structural studies of the O-specific side-chains of the shigella sonnei phase I	
		lipopolysaccharide. Carbohydr. Res. 1980 Jan 1;78(1):119-26.	
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•		intraabdominal abscess model. J Clin Invest. 1982 Jan;69(1):9-16.	
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Shoot 2 of 2	GROUP ART UNIT: Not Yet Assigned	EXAMINER: Not Yet Assigned

<u>. </u>	C36	SZU SC et al., Relation between structure and immunologic properties of the Vi capsular	
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•		to monosaccharides following reduction of their carbodiimide-activated carboxyl groups.	
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	C38	TOURNOY KG et al., Endogenous interleukin-10 suppresses allergen-induced airway inflammation	
		and nonspecific airway responsiveness. Clin Exp Allergy. 2000 Jun;30(6):775-83.	
	C39	TZIANABOS AO et al., Polysaccharide-mediated protection against abscess formation in	
		experimental intra-abdominal sepsis. J Clin Invest. 1995 Dec;96(6):2727-31.	
	C40	TZIANABOS AO et al., Structural characteristics of polysaccharides that induce protection against	
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		airway reactivity in allergic mice. Am J Physiol Lung Cell Mol Physiol. 2000 Apr;278(4):L667-74.	
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		Escherichia coli 010:K5:H4. A polymer similar to desulfo-heparin. Eur J Biochem. 1981 May	
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	C47	WANG Y et al., Structural basis of the abscess-modulating polysaccharide A2 from Bacteroides	
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	C48	WESSELS MR et al., Structure and immunochemistry of an oligosaccharide repeating unit of the	
		capsular polysaccharide of type III group B Streptococcus. A revised structure for the type III group	
		B streptococcal polysaccharide antigen. J Biol Chem. 1987 Jun 15;262(17):8262-7.	

EXAMINER	DATE CONSIDERED

#EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

[NOTE - Must provide a copy of any patent, publication, other information listed, even if it was previously submitted to, or cited by, the U.S. Patent Office in an earlier application, unless the earlier application is identified by the IDS and is relied upon for an earlier filing date under 35 U.S.C. §120, and the copy was provided in the earlier application.]

^{*}a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. ___, filed ___, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).